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CHUNG-MALONEY ET AL.
RMK BUR920040128US1

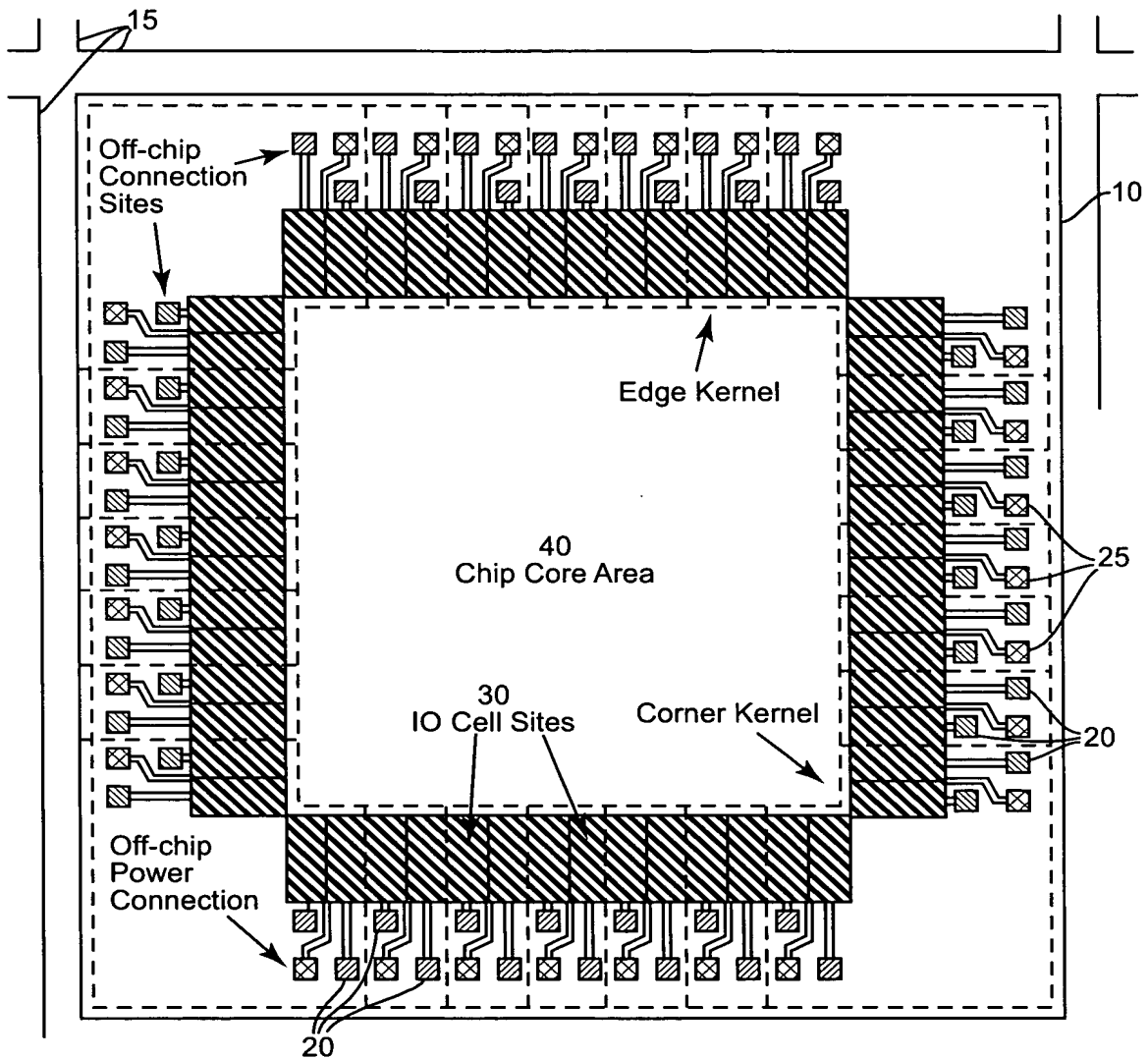


Figure 1
(RELATED ART)

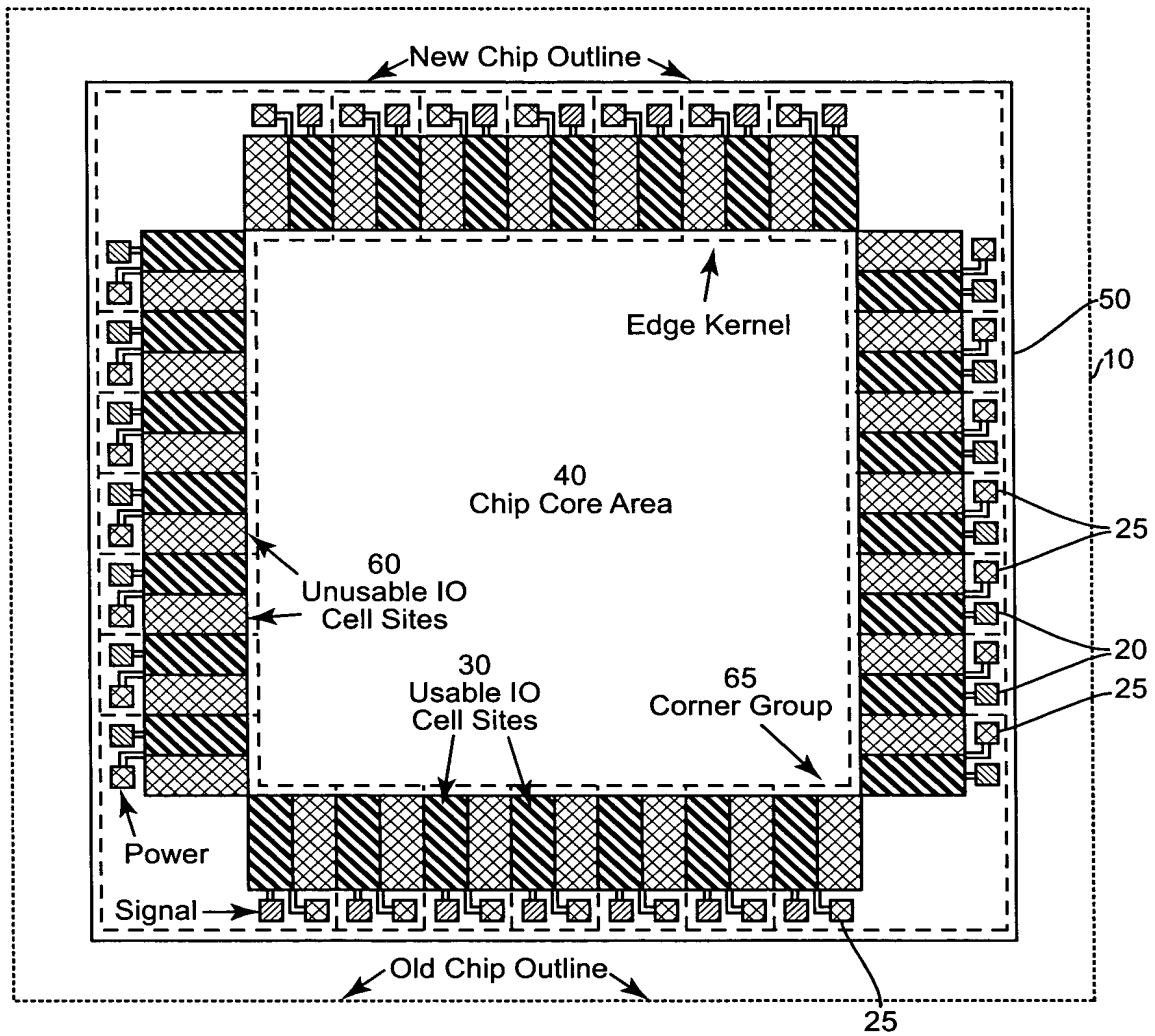


Figure 2
(RELATED ART)

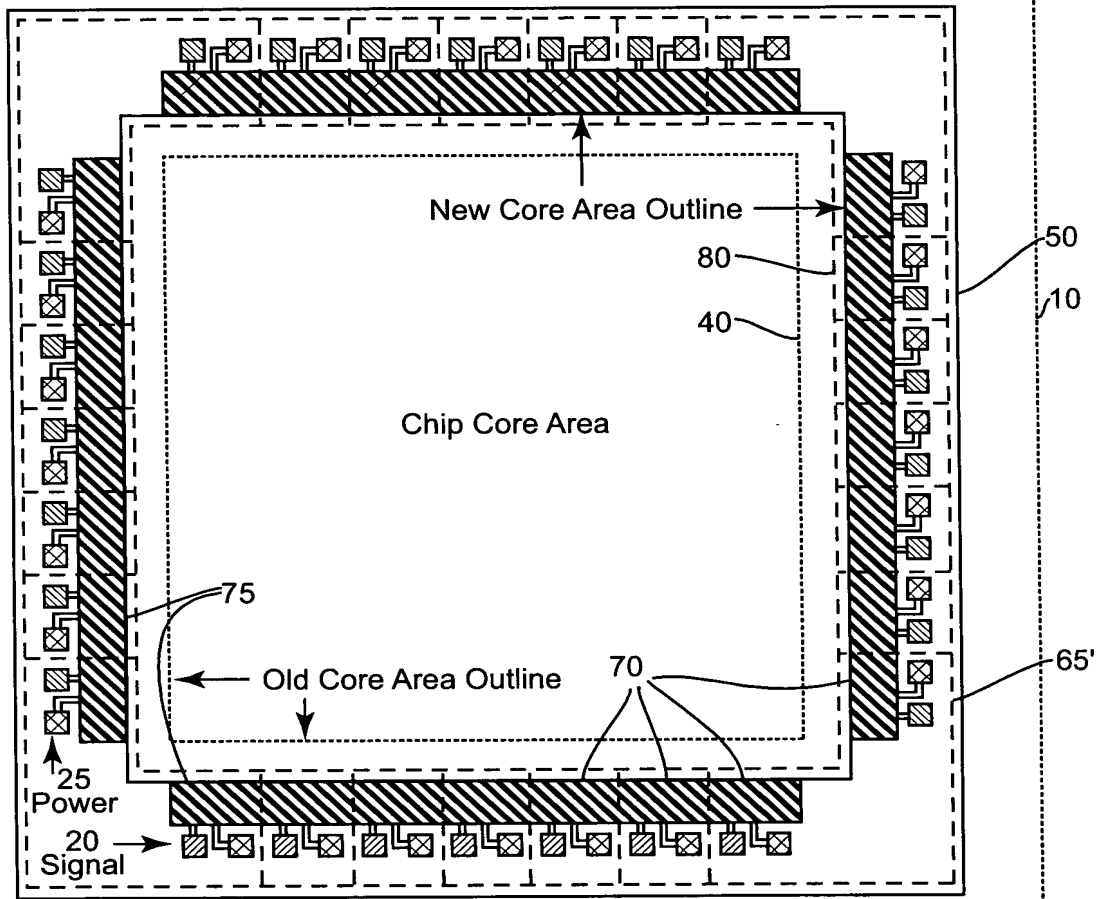


Figure 3
(RELATED ART)

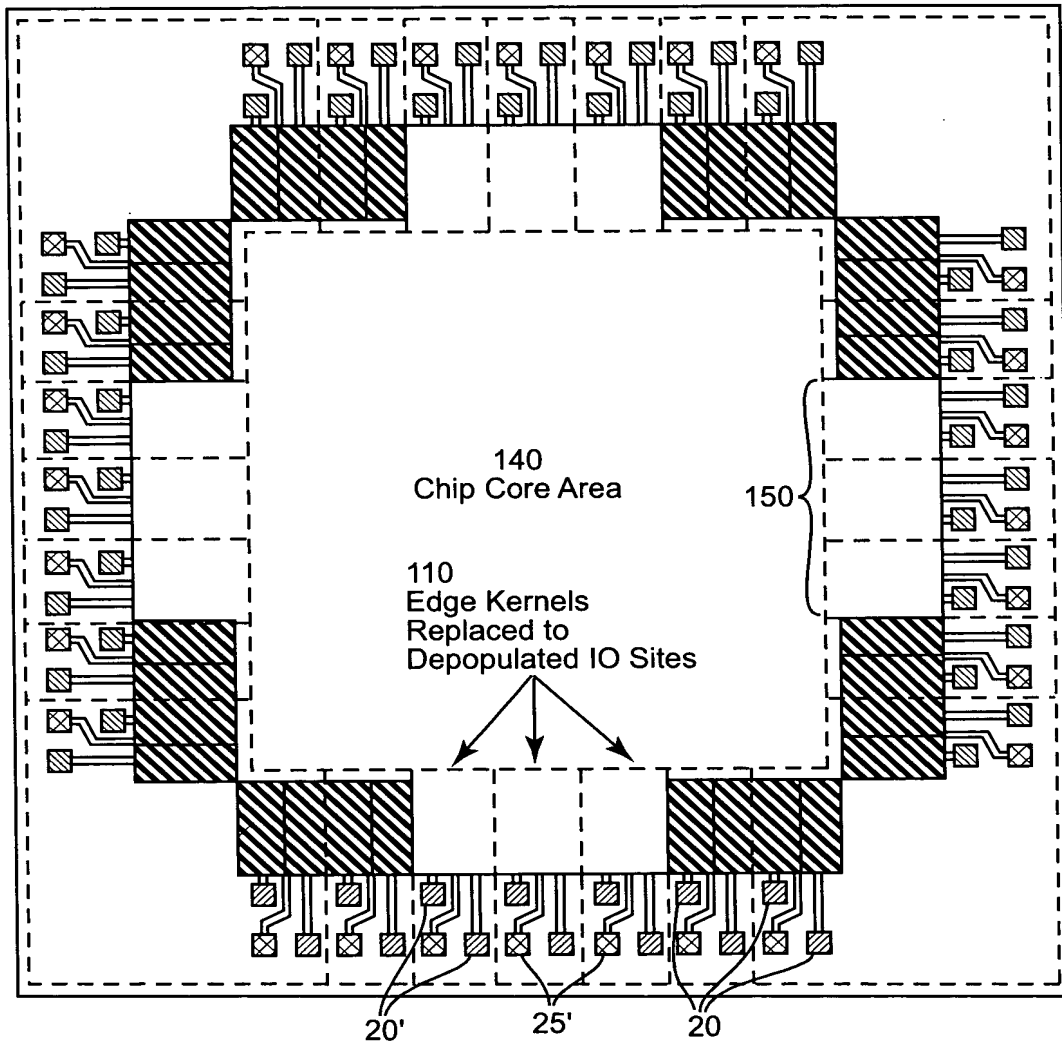


Figure 4

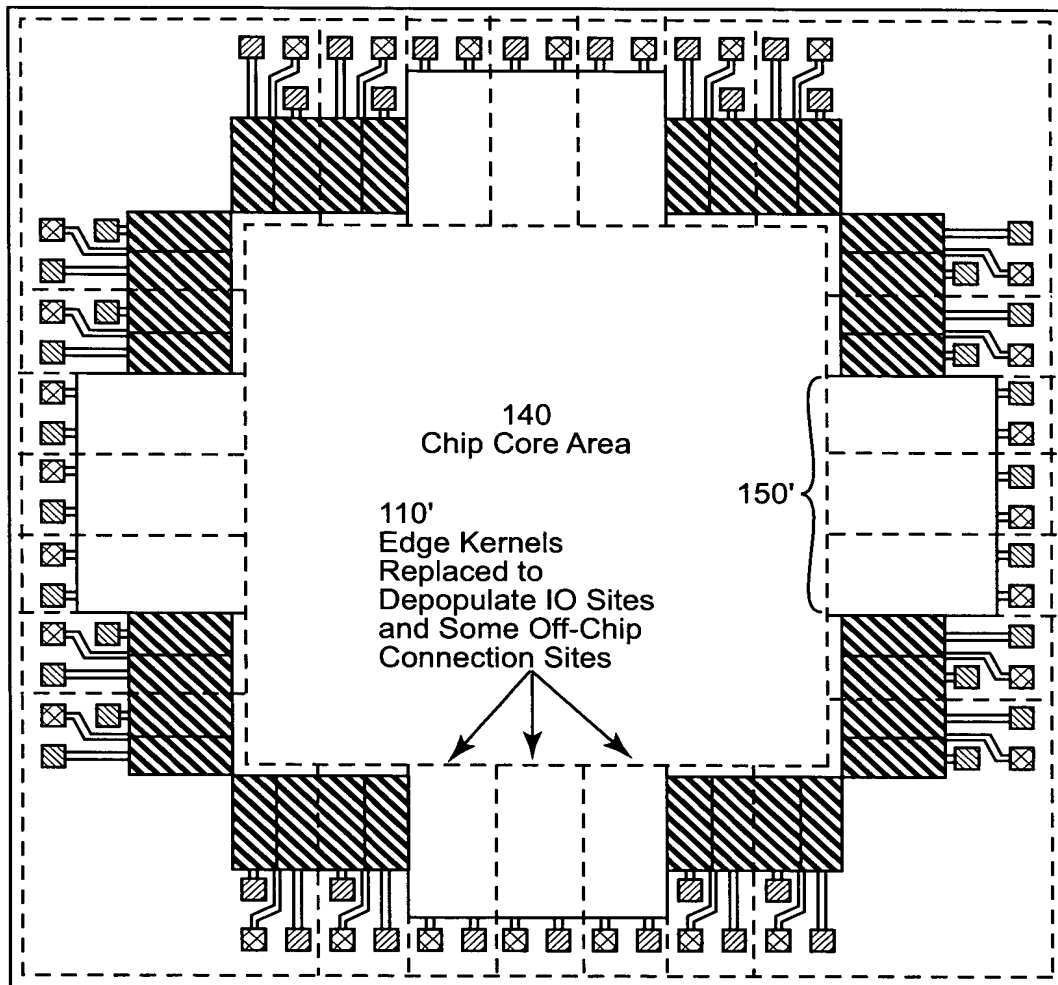


Figure 5

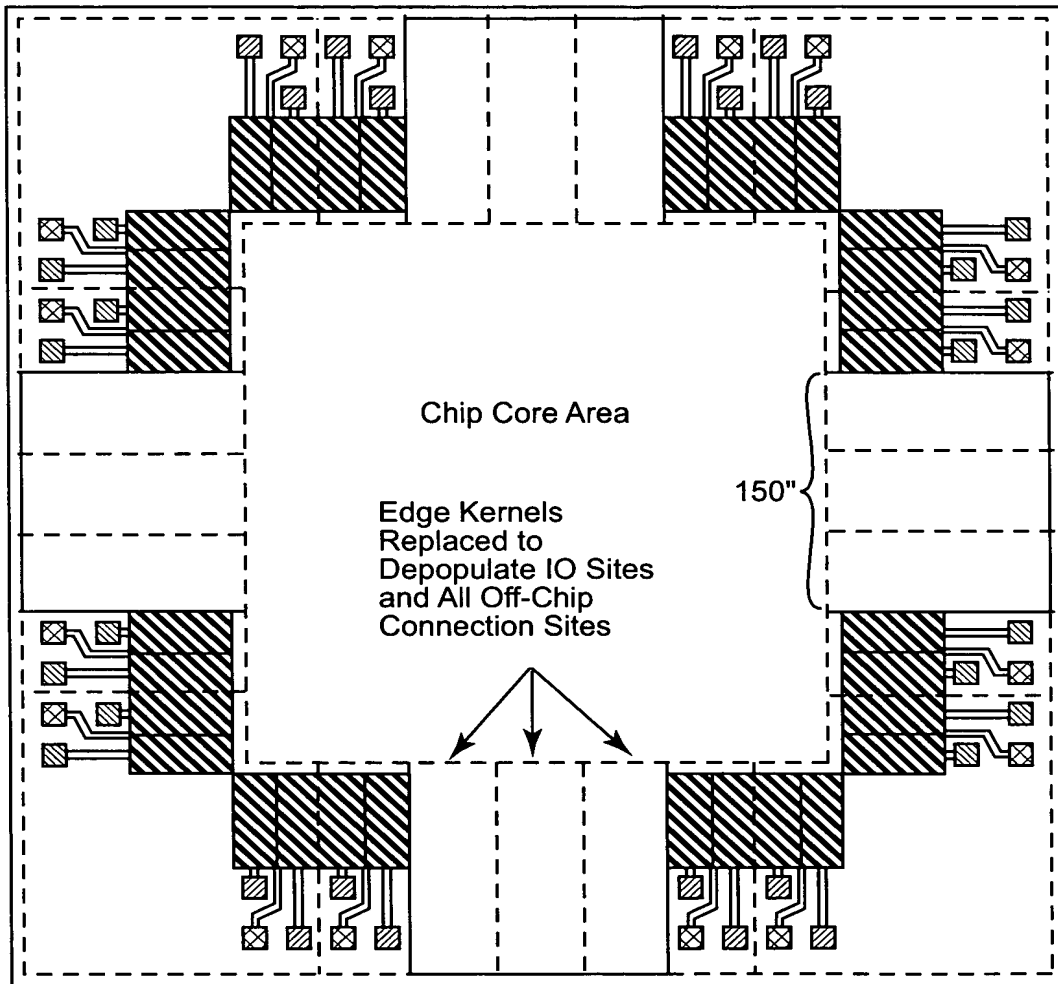


Figure 5A

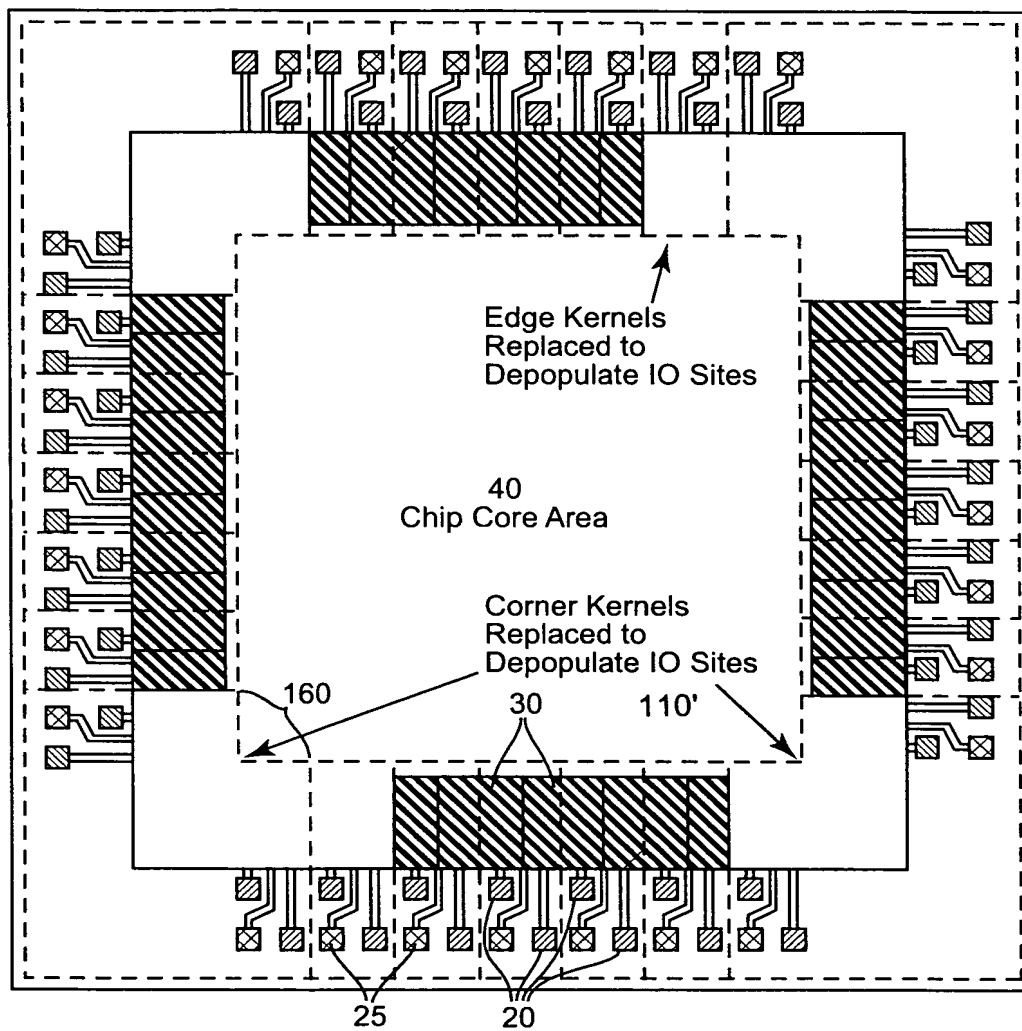


Figure 6

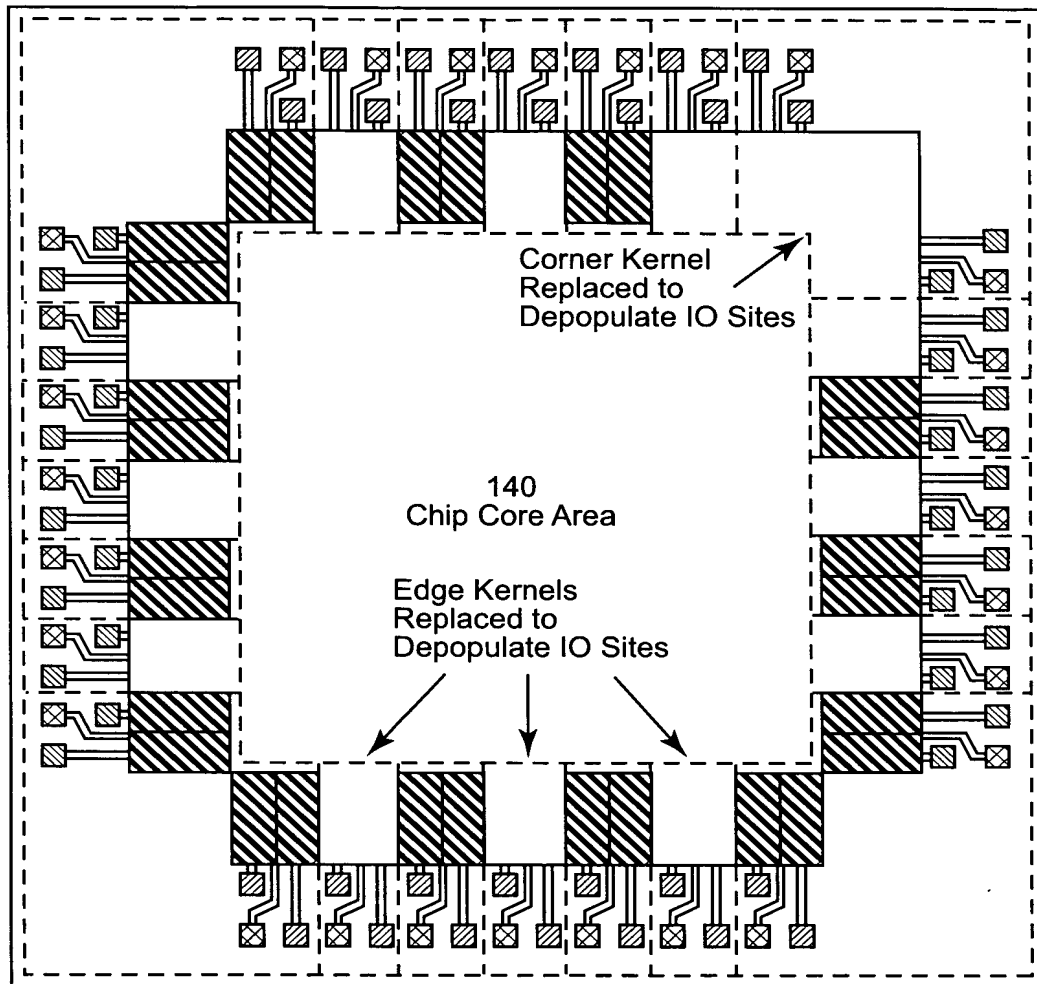


Figure 7

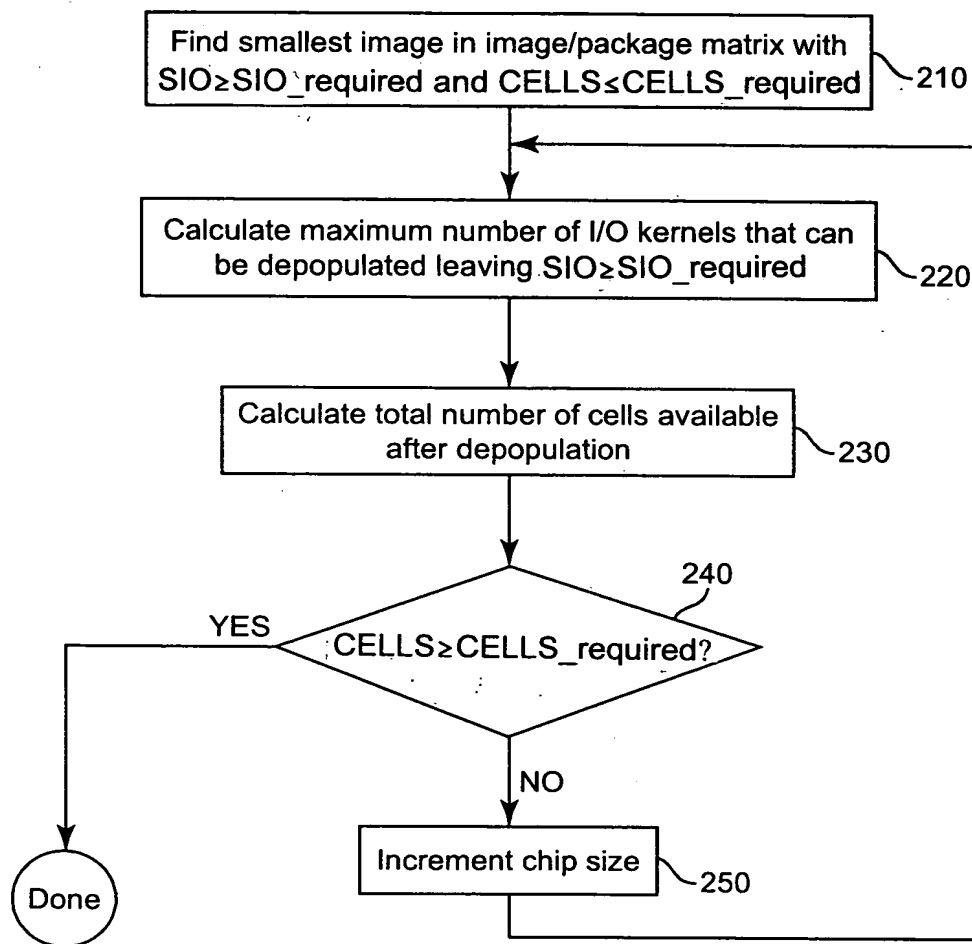


Figure 8

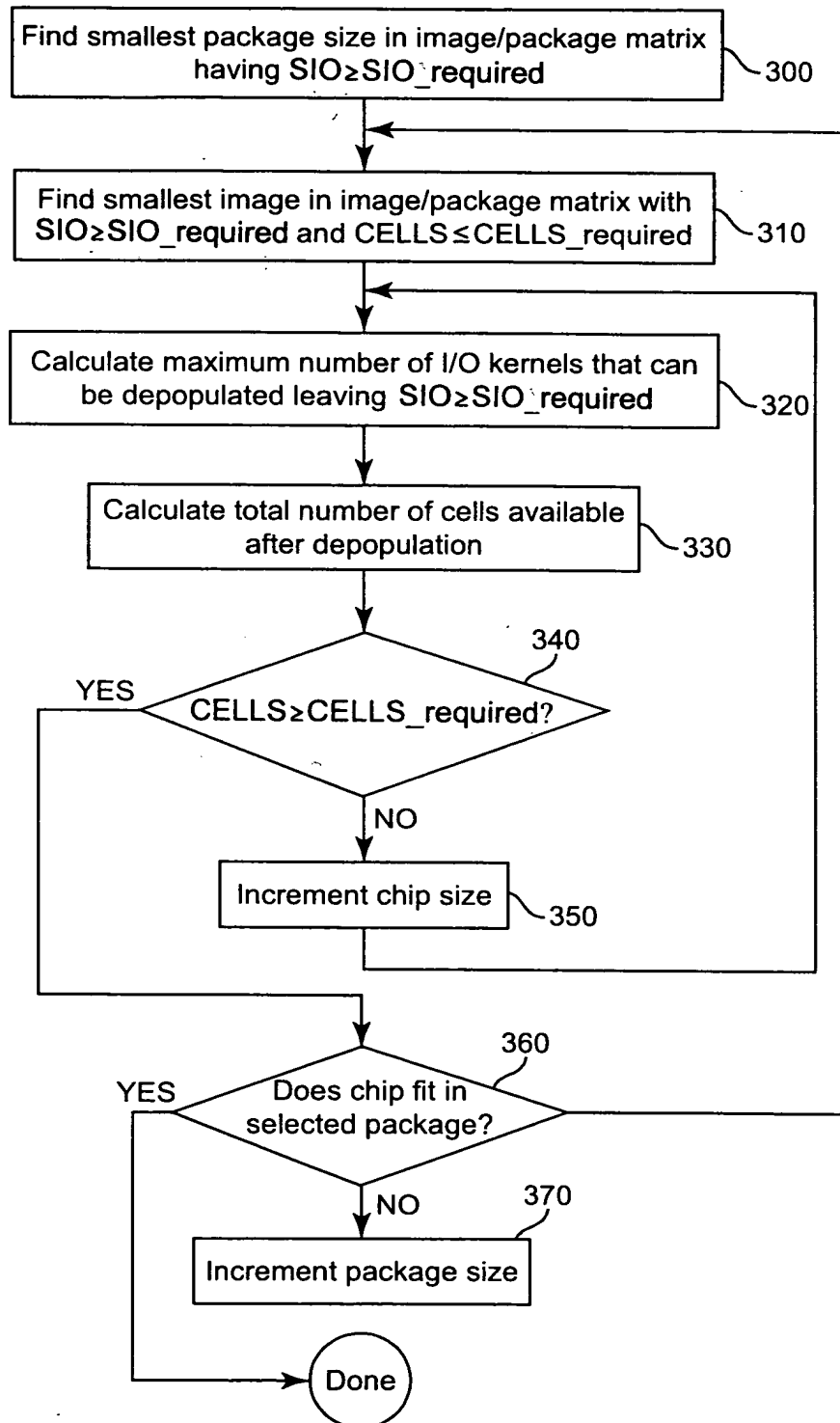


Figure 9

Chip Image	4.85 mm x 4.85 mm	5.58 mm x 5.58 mm	6.30 mm x 6.30 mm
Core Cell Area (dimensions)	3.89 mm x 3.89 mm	4.62 mm x 4.62 mm	5.34 mm x 5.34 mm
Core Cell Area	15.13 mm ²	21.34 mm ²	28.62 mm ²
Total Usable IO cell sites	352	416	480
# of edge kernel (per side)	8	10	12
# of corner kernel (per corner)	1	1	1

Usable IO Sites per Edge Kernel	8
Core Area Recovered by replacing an edge kernel	0.36 mm ²
Usable IO Sites per Corner Kernel	24
Core Area Recovered by replacing a corner kernel	1.0 mm ²

Figure 10